

Diagnostics report

Device model:	Hitachi HDS721050CLA362	Unit IP:	10.0.0.29
Device serial:	JP1572JE0S0TJK	Unit serial:	V474471650
Device firmware:	JP2OA50E	Write protection:	On
Device size:	500 GB (500,107,862,016 bytes)	Computer:	RAYDEN
Case number:	27	User:	Rayden
Case description:	Good drive from Randy Watson	OS:	64-bit Windows 8 Enterprise Version 6.2 (Build: 9200)Service Pack: None

Diagnostics results

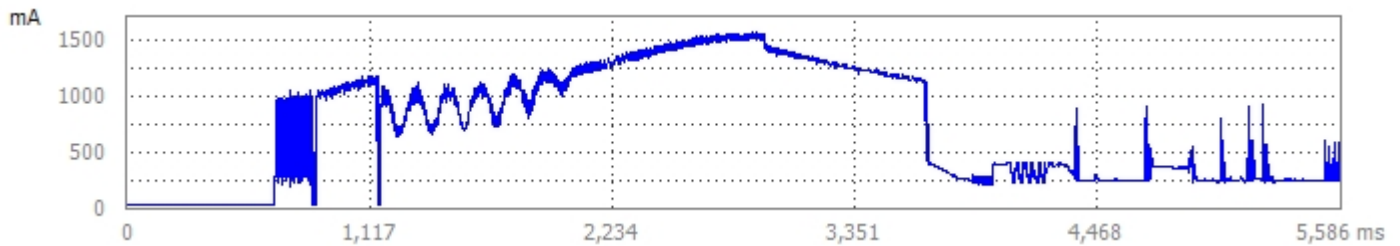
No major hardware or firmware issues have been found.

Full Diagnostic Log

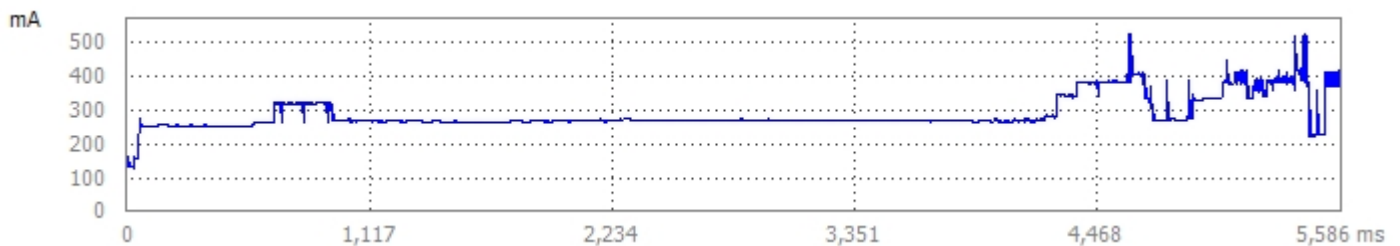
Circuit Board (PCB)

Device is powered on. A power cycle is needed...
Applying power and watching spin-up currents...
Selected Interface: SATA

Current oscillogram (12V):



Current oscillogram (5V):



Device has become ready in 6 sec.

Registers: 0000 0000 0000 0000 0000 A0A0 5050 Alt: 5050

Peak power consumption during spin-up: 5V line = 511.52 mA; 12V line = 1541.21 mA

Status register is valid.

Interface check passed.

Integrity word of device identification data is ok.

Device has been identified: Hitachi HDS721050CLA362 SN: JP1572JE0S0TJK

Elapsed: 20.8 sec.

Circuit board check passed

Heads

Checking power consumption curves for signs of head damage

Identifying the device

Detecting device family

All device identification checks have passed.

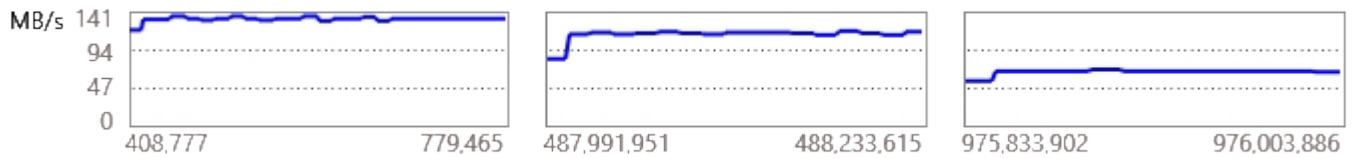
Detected 2 heads: 0 1

Performing media access timing verification separately for each head.

Head #0 speed graph:



Head #1 speed graph:



Head #	Speed	Sectors processed	Freeze count	Read Errors	Head status
0	99 MB/s	953,560	0	0	OK
1	97 MB/s	809,897	0	0	OK

Media access timing verification shows no damage to the head stack.

Elapsed: 10.3 sec.

Head stack check passed

Media Surface

Media scan is running...

Verifying outer tracks (LBA: 0-600,064)

0 error(s) found

Verifying middle tracks (LBA: 488,386,583-488,986,647)

0 error(s) found

Verifying inner tracks (LBA: 976,173,103-976,773,167)

0 error(s) found

Elapsed: 9.5 sec.

Media surface check passed

Firmware

Device is not locked.

Device identification data is valid.

Max Address according to device ID: 976,773,167

Native Max Address Ext: 976,773,167

Max Address from DCO: 976,773,167

Reported capacity appears logically correct.

Performing SMART checks...

#	Attribute Name	Value	Worst	Threshold	RAW
1	Read error rate	100	100	16	0
2	Throughput performance	135	135	54	98
3	Spin up time	120	120	24	12,517,568
4	Number of spin-up times	100	100	0	1,062
5	Reallocated sectors count	100	100	5	0
7	Seek error rate	100	100	67	0
8	Seek performance	138	138	20	31
9	Power-on time	100	100	0	2,184
10	Spin-up retries	100	100	60	0
12	Power Cycles	100	100	0	746
192	Power-off retract count	100	100	0	1,118
193	Load/unload cycle count	100	100	0	1,118
194	HDA Temperature	230	230	0	524,314
196	Reallocate event count	100	100	0	0
197	Current pending sectors	100	100	0	0
198	Offline scan UNC sectors	100	100	0	0
199	Ultra ATA CRC Error Rate	200	200	0	2

Elapsed: 0.4 sec.

Firmware check passed

File System Structures

Found partition at sector 63 (type NTFS). Partition size: 52 GB.
Found partition at sector 102400000 (type NTFS). Partition size: 52 GB.
Found partition at sector 204800000 (type NTFS). Partition size: 52 GB.
69% of the disk is not associated with any partition.
Checking NTFS partition at sector 63. Partition size: 52 GB
Checking NTFS partition at sector 102,400,000. Partition size: 52 GB
Checking NTFS partition at sector 204,800,000. Partition size: 52 GB
Elapsed: 0.5 sec.
Partitions and file systems look fine.